#### PATENT COOPERATION TREATY

#### **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 2004P00023WO	FOR FURTHER ACTION	See item 4 below
	International filing date (day/month/year) 07 January 2005 (07.01.2005)	Priority date (day/month/year) 12 January 2004 (12.01.2004)
International Patent Classification (8th See relevant information in Form P		
Applicant SIEMENS AKTIENGESELLSCHAFT		

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1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).		
2.	This REPORT consists of a total of 7 sheets, including this cover sheet.		
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	. This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inter	national application
	. Box No. VIII	Certain observations on the	e international application
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).		
			Date of issuance of this report 18 October 2006 (18.10.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		lombettes	Authorized officer Ellen Moyse
·			e-mail: pt05@wipo.int

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See Form PCT/ISA/210 Date of mailing (day/month/year) (sheet 2) Applicant's or agent's file reference FOR FURTHER ACTION 2004P00023WO See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/DE2005/000033 07.01.2005 12.01.2004 International Patent Classification (IPC) or both national classification and IPC H01F7/16 Applicant SIEMENS AKTIENGESELLSCHAFT This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/EP

Telephone No.

Form PCT/ISA/237 (cover sheet) (January 2004)

Facsimile No.

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
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Bo	x No. II Priority
1.	The following document has not yet been furnished:
	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
	translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).
	Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date in the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
3.	Additional observations, if necessary:
	The validity of the priority claim has not been
	considered because the International Searching Authority
	does not have in its possession a copy of the earlier
	application whose priority has been claimed or, where
	required, a translation of that earlier application. This
	opinion has nevertheless been established on the
	assumption that the relevant date (Rules 43bis1 and 64.1) $\sim$
	is the claimed priority date.
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Box	Box No. V  Reasoned statement under Rule 43bls.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1,	Statement			
	Novelty	N) Claims	7, 8	YES
		. Claims _	1-6	NO
	Inventive	step (IS) Claims		YES
		_	1-8	NO
	Industria	applicability (IA) Claims	1-8	YES
	•	Claims		NO
2.	Citations an	l explanations:		
	1		de to the following documents:	
		D1: SE 7 502 1	36 L (FACIT AB) 27 August 1976	
		(1976-08-2		
		D2: GB-A-2 077	045 (UKAEA) 9 December 1981 (1981-	
		12-09)	·	
			·.	
	2	The present app	lication does not meet the	
		requirements of	PCT Article 33(1) because the	
		subject matter	of claim 1 is not novel within the	
		meaning of PCT	Article 33(2).	
		Document D1 dis	closes (the references between	
		parentheses app	ly to said document, figure 2) an	
		electromagnetic	linear drive comprising a stator	
		(16) and an arm	ature (14) movable relative to the	
		stator (16). An	air gap (15) is formed between a	
		surface of the	stator (16) and of the armature	
		(14) at least d	uring a relative movement. The air	
		gap (15) is at	least partially slanted in relation	
		to the directio	n of relative movement.	
		The subject mat	ter of claim 1 is therefore not	
		novel (PCT Arti	cle 33(2)).	

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International application No.
PCT/DE2005/000033

Box No. V Reasoned statement under Rule 43bls.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Dependent claims 2-8 do not contain any features that, in combination with the features of any claim to which they refer, meet the PCT requirements for novelty or inventive step. The reasons (for this) are as follows:

They are either known from D1 (claims 2-6) or the subject matter of claims 7, 8 therefore differs from the known document D1 in that a space is formed between the surfaces of the stator and the armature.

The technical problem to be solved by the present invention can therefore be seen to be that of producing an electromagnetic linear drive according to the prior art, wherein the reluctance does not become too small when there is mechanical contact between the stator and the movable armature.

However, these features were already used for the same purpose in a similar electromagnetic linear drive, cf. document D2, in particular page 2, lines 110-123, figure 3b. If a person skilled in the art wishes to achieve the same aim with an electromagnetic linear drive such as that in document D1, it is a straightforward matter for him to apply the features to the subject matter of D1 as well, with corresponding effects. In this way, he would arrive at an electromagnetic linear drive as set forth in claims 7, 8, without being inventive.

Form PCT/ISA/237 (Box No. V) (January 2004)

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Hence, the subject matter of dependent claims 2-6
	is not novel (PCT Article 33(2)), and the subject
	matter of dependent claims 7, 8 does not involve
	any inventive step (PCT Article 33(3)).
4	The subject matter of the application relates to
	an electromagnetic linear drive, which obviously
	has commercial applicability (PCT Article 33(4)).
i.	•